**Transmitter Circuit Diagram**

|  |  |
| --- | --- |
| Accelerometer | Arduino Pins |
| Vcc | 5V |
| GND | GND |
| x-out | A1 |
| y-out | A2 |

|  |  |
| --- | --- |
| Nrf24l01 | Arduino |
| GND | GND |
| VCC | 3v3 |
| CE | D7 |
| SCK | D13 |
| MISO | D12 |
| CSN | D8 |
| MOSI | D11 |

Technical Details

Power Supplied: 9V

Current Supplied: 400-600mAh

Code:

//Include Libraries

#include <SPI.h>

#include <nRF24L01.h>

#include <RF24.h>

const int x\_out = A1;

const int y\_out = A2;

//create an RF24 object

RF24 radio(7, 8); // CE, CSN

//address through which two modules communicate.

const byte address[6] = "00001";

// variables for accelerometer value

typedef struct {

int xAxis;

int yAxis;

}data;

data send\_data;

void setup()

{

radio.begin();

/\*//Temp Code

Serial.begin(9600);

\*/

//set the address

radio.openWritingPipe(address);

radio.setPALevel(RF24\_PA\_LOW);

//Set module as transmitter

radio.stopListening();

}

void loop()

{

//reading values from accelerometer

send\_data.xAxis = analogRead(x\_out);

send\_data.yAxis = analogRead(y\_out);

radio.write(&send\_data, sizeof(send\_data));

/\*/Temp Code

Serial.print(send\_data.xAxis);

Serial.print("-------------");

Serial.print(send\_data.yAxis);

Serial.println(" ");

\*/

delay(500);

}